

interpolant
 $\sum_{i=0}^n \text{coeff}_i \text{ basis } p_i(t)$

Lagrange form

Newton form

coefficient j

y_j $l_j(t)$

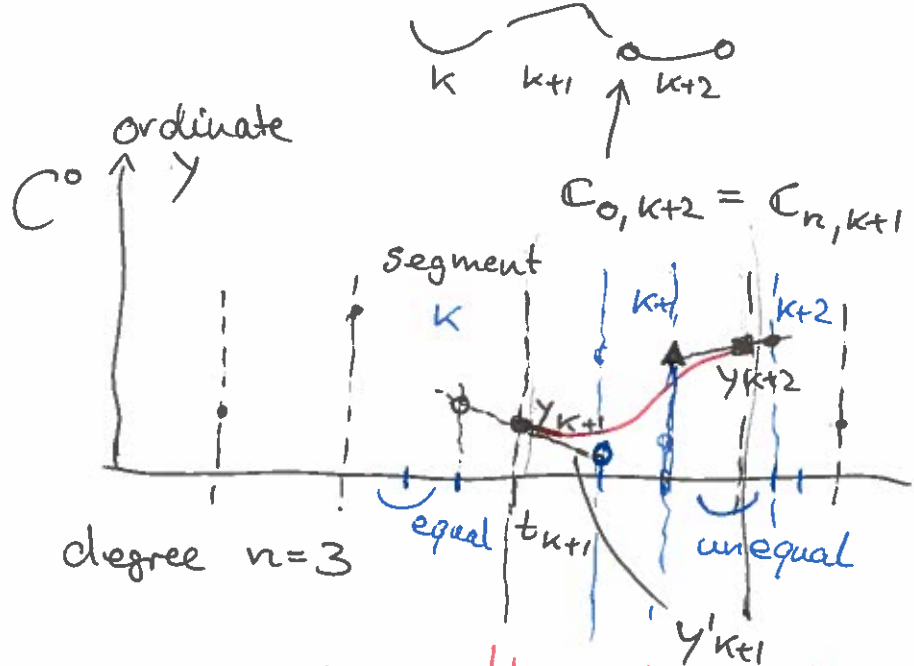
$[t_0, t_1, \dots, t_j] f$ $n_j(t)$

$f[\dots] \sim [] f$

$[t_j] f := y_j$

Bernstein-Binomial-Bézier form

$b_{j/k}(t)$



$C_{2, k} = y_{k+1} - \frac{1}{3} y'_{k+1}$
 choose / interpolate value
 $C_{0, k+1} = \bullet y_{k+1}$
 $C_{1, k+1} = \circ y_{k+1} + \frac{1}{3} y'_{k+1}$
 $C_{2, k+1} = \blacktriangle y_{k+2} - \frac{1}{3} y'_{k+2}$
 $C_{3, k+1} = y_{k+2} = C_{0, k+2}$

cubic Hermite interpolant (t_{kj}, y_k, y'_k)



evaluate via nested multiplication (de Casteljau)

see wikipedia: Bézier Poly...